HEAVY DUTY
HEATING & AIR CONDITIONING
UNITS & ALL MAKES PARTS

RedDOT CORPORATION ®

2011

BUILT TO SURVIVE

www.InstrumentSales.com/rdac

1-800-333-7976

79R SERIES

Service Equipment

SYSTEM PROTECTION

PROTECHT™ SYSTEM

Introducing the latest A/C system protection technology for use with mobile A/C systems. The system is comprised of a compact, electronic control unit (ECU) which performs input signal processing, A/C system diagnostics, communication with the vehicle's SAE J1708 serial bus using SAE J1587 protocol, and A/C function control through output drivers.

System Protection Features

- Exhibits visual blink codes providing system protection and troubleshooting diagnostics
- Limits excessive system pressures
- Limits excessive clutch cycling to increase the life of compressor and compressor clutch
- Prevents evaporator freeze up
- Engages the condenser fan based on real time A/C and vehicle operating conditions
- Prevents the clutch from engaging under low temperatures or lost refrigerant charge conditions
- Prevents the clutch from engaging under low battery voltage conditions
- Allows set points to be changed in software to meet specific applications and requirements
- Transmits A/C error and diagnostic codes to the SAE J1708 Data Bus
- Reads available information on the SAE J1708 Data Bus to both protect and optimize A/C component performance based on vehicle status.
- Displays faults and real time diagnostics with Windows® based Red Dot's ***A/C Technician*** software

System Components

- Electronic Control Unit (ECU)
- Electronic High Side Pressure Transducer provides real-time pressure readings
- Refrigerant Charge Sensor
- Wire Harness

System Function / Performance

- Low Battery Voltage Detection
- Clutch Cycling Limiting
- High Side Pressure Measurement
- High Side Pressure Limiting
- Condenser Fan Control
- Low Temperature Lock Out
- Low and Lost Refrigerant Charge Detection
- Compressor Clutch Diagnostics
- Sensor Diagnostics
- Data Bus Communications

Refrigerant Charge Sensor

Pressure Transducer

PROTECHT™
A/C System Protection & Diagnostics
RED DOT CORPORATION
Slow Blink – Unit Functioning Properly
Fast Blink – Low Voltage
1 Blink – Low Charge
2 Blinks – Lost Charge*
3 Blinks – Check A/C Clutch
4 Blinks – Check Sensors
* ONLY VALID FOR UNDERHOOD TEMPERATURES GREATER THAN 10°F (-12°C)
PATENT PENDING

Application	Parts No.	Factory No.	Description
Freightliner FLD	**71R8902**	RD-6-5125-0P	Control Module Kit
	71R8910	RD-2-3765-1P	Suction Tube
Changing out the receiver drier after ProTecht Installation is recommended			
Freightliner FLN	**71R8902**	RD-6-5125-0P	Control Module Kit
	71R8915	RD-2-3775-1P	Sensor Adapter
Replacing the receiver drier after ProTecht installation is recommended			
Freightliner Century Class (PRE 1/01)	**71R8903**	RD-6-5144-0P	Control Module Kit
For cabs manufactured before Jan 2001	**71R8920**	RD-3-10551-2P	For day cab with sleeper
	71R8925	RD-3-10051-3P	For day cab without sleeper
Mack CH Vision (with A-Pads)	**71R8922**	RD-6-5189-0P	ProTecht Kit
Volvo VN (with A-Pads)	**71R8912**	RD-6-5188-0P	ProTecht Kit

A/C TECHNICIAN SOFTWARE

On-Board Diagnostics

- Exhibits visual blink codes providing trouble shooting diagnostics
- Transmits A/C Error and diagnostic codes to the SAE J1708 Data Bus
- Reads available information on the SAE J1708 to both protect and optimize A/C component performance

Advanced Diagnostics

COMPONENTS

- A/C Technician Software

FEATURES

- Displays Diagnostic information
- Displays Active Fault Codes
- Displays "Real Time" Pressures
- Retains Fault Code History

REQUIREMENTS

- Laptop or desktop PC with Intel 486 or better microprocessor
- Microsoft Windows® 95/98/NT/2000
- Hard drive with 1Mb of free space
- CD-ROM Drive
- 8Mb of RAM
- One free serial (COM) port
- VGA or higher resolution monitor
- SAE J1708 Serial Interfade Adapter

RD-6-5120-0P

With SAE J1708
Serial Interface Adapter

RD-6-5120-1P

Without SAE J1708
Serial Interface Adapter

The optional A/C Technician Diagnostic Software, part number RD-6-5296-0P utilizes CD-ROM based software with a SAE J1708 serial interface adapter and runs on any 486 or better computer running Windows 95 or newer!

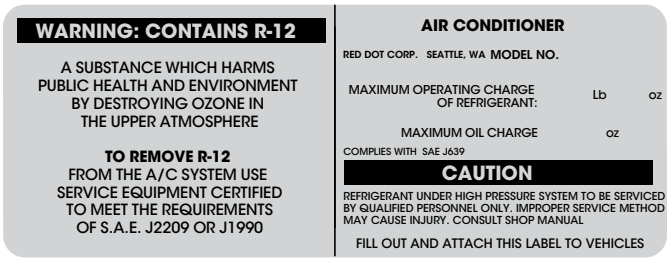
SERVICE EQUIPMENT

REFRIGERANT CAUTION LABELS

PLEASE NOTE: When servicing R-12 and R-134a systems, the tools that come in contact with the refrigerant (such as gauge sets, charging equipment and recovery recycle equipment) must be dedicated to one refrigerant or cross contamination may occur.

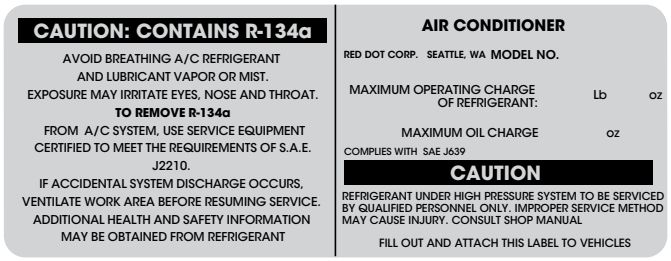
79R0010 RD-5-7105-0M

10 per package


WARNING: CONTAINS R-12
A SUBSTANCE WHICH HARMS PUBLIC HEALTH AND ENVIRONMENT BY DESTROYING OZONE IN THE UPPER ATMOSPHERE
TO REMOVE R-12
FROM THE A/C SYSTEM USE SERVICE EQUIPMENT CERTIFIED TO MEET THE REQUIREMENTS OF S.A.E. J2209 OR J1990
AIR CONDITIONER
RED DOT CORP. SEATTLE, WA MODEL NO.
MAXIMUM OPERATING CHARGE OF REFRIGERANT: Lb oz
MAXIMUM OIL CHARGE oz
COMPLIES WITH SAE J639
CAUTION
REFRIGERANT UNDER HIGH PRESSURE SYSTEM TO BE SERVICED BY QUALIFIED PERSONNEL ONLY. IMPROPER SERVICE METHOD MAY CAUSE INJURY. CONSULT SHOP MANUAL
FILL OUT AND ATTACH THIS LABEL TO VEHICLES

79R0020 RD-5-7106-0M

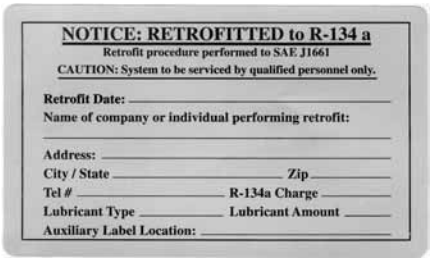
10 per package


CAUTION: CONTAINS R-134a
AVOID BREATHING A/C REFRIGERANT AND LUBRICANT VAPOR OR MIST.
EXPOSURE MAY IRRITATE EYES, NOSE AND THROAT.
TO REMOVE R-134a
FROM A/C SYSTEM, USE SERVICE EQUIPMENT CERTIFIED TO MEET THE REQUIREMENTS OF S.A.E. J2210.
IF ACCIDENTAL SYSTEM DISCHARGE OCCURS, VENTILATE WORK AREA BEFORE RESUMING SERVICE.
ADDITIONAL HEALTH AND SAFETY INFORMATION MAY BE OBTAINED FROM REFRIGERANT
AIR CONDITIONER
RED DOT CORP. SEATTLE, WA MODEL NO.
MAXIMUM OPERATING CHARGE OF REFRIGERANT: Lb oz
MAXIMUM OIL CHARGE oz
COMPLIES WITH SAE J639
CAUTION
REFRIGERANT UNDER HIGH PRESSURE SYSTEM TO BE SERVICED BY QUALIFIED PERSONNEL ONLY. IMPROPER SERVICE METHOD MAY CAUSE INJURY. CONSULT SHOP MANUAL
FILL OUT AND ATTACH THIS LABEL TO VEHICLES

REFRIGERANT RETROFIT LABELS

79R0030 RD-5-10908-0P

10 per package


NOTICE: RETROFITTED to R-134 a
Retrofit procedure performed to SAE J1661
CAUTION: System to be serviced by qualified personnel only.
Retrofit Date:
Name of company or individual performing retrofit:
Address:
City / State Zip
Tel # R-134a Charge
Lubricant Type Lubricant Amount
Auxiliary Label Location:

RED DOT CTC™ ANALYZERS

Red Dot Constant Temperature Control (CTC™) analyzers are an important service tool FOR trouble-shooting heater or heater/air conditioner systems equipped with the Red Dot CTC™ or CTC II™ systems

79R1010 RD-6-4664-0P

CTC™ Analyzer

79R1020 RD-6-4673-0P

CTC II™ Analyzer

SERVICE EQUIPMENT

E-Z CLIP FITTINGS & TOOLS

79R8920 RD-5-10717-0P

Connecting Tool

79R8930 RD-5-10739-0P

Hose Cutter & Blade, maximum hose O.D.: 2″

79R8931 RD-5-10740-0P

Replacement Blade for 79R8930 above

TOOL KIT

79R8915 RD-5-10718-0P

Includes:

20 each: Clips: #6, #8, #10, #12
10 each: Cages: #6, #8, #10, #12
Connecting Tool 79R8920
Hose Cutter 79R8930
Replacement blade for Hose Cutter

STEEL FIELDCASE

79R8916 RD-5-11372-0P

Includes:

100 each: Clips: #6, #8, #10, #12
50 each: Cages: #6, #8, #10, #12
50 each: O-Rings: #6, #8, #10, #12
100 each: O-Ring Nipple: #6, #8, #10, #12
Connecting Tool 79R8920
Hose Cutter 79R8930
2 Replacement blades for Hose Cutter

EZ CLIP NIPPLE O-RINGS

70R8836	70R8838	70R8831	70R8832
RD-5-11461-0M	RD-5-11462-0M	RD-5-11463-0M	RD-5-11464-0M
#6	#8	#10	#12

O-Rings ship 25 per package

CAGES & CLIPS

Packages of 10

Cages			Clips	
Size		**Factory No.**		**Factory No.**
#6	**70R8806**	RD-5-10709-0M	**70R8826**	RD-5-10713-0M
#8	**70R8808**	RD-5-10710-0M	**70R8828**	RD-5-10714-0M
#10	**70R8801**	RD-5-10711-0M	**70R8821**	RD-5-10715-0M
#12	**70R8802**	RD-5-10712-0M	**70R8822**	RD-5-10716-0M

CAPS

Threaded protective caps — Packages of 20

	Factory No.	Description
75R5555	RD-5-11325-0M	E-Z Clip Low Side Cap
75R5556	RD-5-11223-0M	E-Z Clip High Side Cap

SERVICE EQUIPMENT

ATCO CRIMP TOOLS

79R1560 RD-5-11225-0P

Bubble Crimp Kit
for use with
Air Impact Wrench

79R1565 RD-5-11232-0P

Bubble Crimp Kit with
Hydraulic Hand Pump and 6' Hose

Drop-Ship Only

ATCO CRIMP TOOL REPLACEMENT PARTS

Description	79R1560 & 79R1565		79R1510 & 79R1515	
Actuator Screw			**79R1502**	RD-5-7788-0P
Strain Rod Set (2)			**79R1503**	RD-5-7787-0P
Latch Plate			**79R1504**	RD-5-7786-0P
Actuator Bar			**79R1505**	RD-5-8481-0P
Standard Crimp Die #6			**79R1516**	RD-5-7789-0P
Standard Crimp Die #10 and Reduced #12	**79R1531**	RD-5-11230-0P	**79R1521**	RD-5-7791-0P
Standard Crimp Die #12	**79R1532**	RD-5-11231-0P	**79R1522**	RD-5-7792-0P
Standard Crimp Die #6, Reduced Bead Crimp Die #8	**79R1536**	RD-5-11227-0P	**79R9518**	RD-5-8896-0P
Standard Crimp Die #8	**79R1538**	RD-5-11228-0P	**79R1518**	RD-5-7790-0P
Reduced Bead Crimp Die #10	**79R1541**	RD-5-11229-0P	**79R9521**	RD-5-8897-0P
Reduced Bead Crimp Die #6	**79R1546**	RD-5-11226-0P	**79R9516**	RD-5-8895-0P

79R1672 RD-5-11200-0P

Bubble Crimp Kit
Use with Red Dot Barrier Hose

Drop-Ship Only

79R1520 RD-5-7731-0P

Hydraulic Hand Pump and 6' Hose with
Male Quick Disconnect

79R1525 RD-5-7732-0P

HYDRAULIC CYLINDER

Retro Fit Hydraulic Cylinder for 79R1510,
Bubble Crimp Kit with Female Quick Disconnect

R-134A

79R0120 LS — RD-5-11580-0P

Drop-Ship Only

Air Conditioning Recovery/Recycling Unit (R-134a, 110V, 60 Hz)

- Simplest, easiest to use air conditioning service units on the market today (helps technicians meet today's tough service standards)
- Operation is quick and efficient (lowers air conditioning service costs)
- Easy-to-operate (just connect quick connect couplings to vehicle and push Recovery Recycle switch—unit completes recovery and recycle process)
- Built with quality components, such as 1/2 hp, oil-less compressor, new advanced shock resistant scale, dual protected solenoids, and more
- Vacuum timer allows technician to set time and two-stage vacuum pump automatically pulls a deep vacuum
- Easy to set LCD display (simply scroll to correct charge and push charge switch—system quickly receives refrigerant)
- Large 75 mm (3.5 in) gauges allows technician to easily monitor air conditioning system
- One-touch air purge eliminates non-condensables in system
- One-touch oil drain, after every service, tells how much oil is needed to keep compressor fully lubricated
- Automatic tank full and high pressure shut-offs
- Shock resistant scales for accurate charging
- Single-pass filtering system
- Built-in manifold gauge set
- Moisture indicator
- Tank refill adapter
- Modular design for easy repair
- Large pneumatic tires
- Premium hoses approved to SAE2197 standard
- Fully factory tested
- Built-in accessory and tool storage box

SPECIFICATIONS

Recovery tank	One 50-pound
Dimensions (h x w x d)	53" x 22" x 27" (63 x 68 x 134 cm)
Weight	120 lbs(54 kg)
Vacuum Pump	Two-stage 6 cfm
Hose length	15 ft (4.5 m)
	½" ACME female x 13 mm male adapter

SERVICE PARTS

79R0101 LS	RD-5-11081-0P	Refrigerant Filter
79R0103 LS	RD-5-11082-0P	Refrigerant Pre-Filter
79R4006 LS	RD-5-11148-0P	¼" Female x ¼" Male Acme Refill Adapter (R-134a)
79R0107 LS	RD-5-11145-0P	Blue Flex Hose (¼")
79R0109 LS	RD-5-11146-0P	Red Flex Hose (¼")

LS = Limited to stock on hand

RECOVERY, RECYCLING, AND RECHARGING SYSTEMS

PORTABLE RECOVERY SYSTEM

79R0160 (R-134a) LS — RD-5-11101-0P

Drop-Ship Only

- Quickly recover contaminated, known, or unknown refrigerants including mixtures and blends
- Perfect for scavenger work or to protect recover/recycle equipment and valuable refrigerant supply
- Pump straight liquid refrigerant at up to 4 lbs/minute; vapor at 1 lb/minute
- Very durable (oil-less compressor, direct drive, and permanently lubricated cylinder walls)
- Reliable and lightweight
- Built-in 200 mesh inlet filter to protect from dirty air conditioning systems
- Easy use (two hose setup and on-the-fly auto purge)

Recovery capabilities	Vapor and Liquid applications
Compressor	⅛-HP Oil Filled Hermetic
Dimensions (w x l x h)	14 ½" x 12 ½" x 15" x (36cm x 32cm x 38cm)
Refrigerants	R-12 and R-134a
Voltage	115V 60 Hz, single phase
Recovery rate	Liquid: 4 lbs (2 kg) per minute (maximum) Vapor: 1 lbs (0.5 kg) per minute (maximum)
Weight	25 lbs (11 kg)

PART NUMBERS

79R0165 LS	RD-5-11100-0P	R-12 Recovery System
79R3165 LS	RD-5-11091-0P	Yellow R-12 Charging Hose
79R1810 LS	RD-5-11120-0P	Refrigerant Cylinder (30 lb)
79R0160 LS	RD-5-11101-0P	R-134a Recovery
79R3175 LS	RD-5-11094-0P	Yellow R-134a Charging Hose

ADDITIONAL PARTS FOR 79R0165

79R1820 LS	RD-5-11122-0P	Refrigerant Cylinder (50 lb)	
79R3162 LS	RD-5-11086-0P	R-12 Charging Hose, Red	457 cm (15 ft)
79R3164 LS	RD-5-11088-0P	R-12 Charging Hose, Blue	457 cm (15 ft)
79R3166 LS	RD-5-11090-0P	R-12 Charging Hose, Yellow	457 cm (15 ft)
79R3161 LS	RD-5-11093-0P	R-12 Charging Hose, Blue	244 cm (8 ft)
79R3163 LS	RD-5-11092-0P	R-12 Charging Hose, Red	244 cm (8 ft)

ADDITIONAL PARTS FOR 79R0160

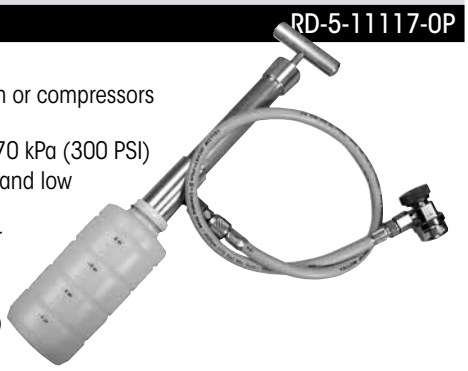
79R1820 LS	RD-5-11122-0P	Refrigerant Cylinder	
79R3173 LS	RD-5-11095-0P	R-134a Charging Hose, Blue	244 cm (8 ft)
79R3171 LS	RD-5-11096-0P	R-134a Charging Hose, Red	244 cm (8 ft)
79R3176 LS	RD-5-11097-0P	R-134a Charging Hose, Yellow	457 cm (15 ft)
79R3174 LS	RD-5-11098-0P	R-134a Charging Hose, Blue	457 cm (15 ft)
79R3172 LS	RD-5-11099-0P	R-134a Charging Hose, Red	457 cm (15 ft)

LS = Limited to stock on hand

SERVICE EQUIPMENT

RECHARGE OIL PUMP

79R1730 LS — RD-5-11117-0P



- Used to replace oil in air conditioning system or compressors after oil has been removed
- Easily works with system pressures up to 2070 kPa (300 PSI)
- Includes bottle with calibration marks, hose, and low side R-134a coupler
- Can be used for R-12 systems (use a regular charging hose with 1/4 inch flare fittings)
- Volume per stroke: 1.5 ounces
- System pressures: up to 2070 kPa (300 PSI)
- Holds 16 ounces

REFRIGERANT FILTER & PREFILTER

SERVICE PARTS FOR:

79R0110 LS	RD-5-11084-0P	Air Conditioning Recovery/Recycling Unit (R-12, 110V)
79R0120 LS	RD-5-11087-0P	Air Conditioning Recovery/Recycling Unit (R-134a, 110V)
79R0130 LS	RD-5-11089-0P	Air Conditioning Recovery/Recycling Unit (R-134a, 220V)

79R0101 LS — RD-5-11081-0P

Refrigerant Filter

Capacity	41 cubic inches
Color	GRAY
Dimensions	3½" (89mm) diameter by 9½" (241cm) overall length

79R0103 LS — RD-5-11082-0P

Refrigerant Prefilter

Function	Removes moisture and oil breakdown particles
Connections	¼" male flare x ¼" female flare
Dimensions	4" (101mm) diameter by 5 ⅝" (143mm) overall length

LS = Limited to stock on hand

CHARGING SCALES

DIGITAL ELECTRONIC CHARGING SCALE

79R0170 LS RD-5-11154-0P

Drop-Ship Only

Manual Refrigerant Charging Scale – Battery Powered

- Large heavy duty platform and oversized strain gauge bridge for accuracy and repeatability
- High quality load cell for improved accuracy
- Retractable 5' coiled cord for easier storage
- Water & environment resistance with sealed LCD display and membrane keypad with tactile metal domes
- Overload Protection
- 1/2" bold dark numbers for easy reading outdoors
- Low battery indicator icon on LCD
- Optional AC power pack
- Measure imperial or metric units
- Meets UL and CE requirements
- Compatible with all refrigerants

Specifications:

Capacity:	110 lbs (50kg)
Resolution:	0.1 Ounce / 0.01 Pound / 0.01kg
Accuracy:	± 0.5 oz., ± 0.03 lb., ± 0.015 kg.
Total Unit Weight:	9 lbs. (4.1 kg)
Case Size (LxWxH)	15 ½" x 12 ¼" x 3 ¼" (394mm x 311mm x 83mm)
Platform Size:	9" X 9" (228mm X 228mm)
Battery:	25 hours continuous use (approximate)
Battery:	9v

PROGRAMMABLE ELECTRONIC CHARGING SCALE WITH CHARGING MODULE

79R0180 LS RD-5-11153-0P

Drop-Ship Only

Automatic Refrigerant Charging Scale – 110v, 50 hz

Same features as the 79R0170 above with additional capabilities for automated, economical charging.
Charging module hooks to scale with coiled cord. Simple 3-button operation.
Use with all refrigerants.

- Hold/resume mode for switching supply tanks in mid-charge
- Automatic hold if refrigerant flow stops. Extends solenoid life.
- Schrader valve prevents backflow through solenoid
- Power pack eliminates battery draw during charging.

LS = Limited to stock on hand

MANIFOLD GAUGES

79R3120 LS — RD-5-11104-0P

Manifold Assembly (R-134a)

79R3140 LS — RD-5-11085-0P

Manifold Assembly (R-12)

- Used to check pressure in R-134a and R-12 cooling systems
- Bold, easy to read gauges (large bold numbers and colored scales are easy to read)
- Removable Lexan crystals resist breakage
- Gauge cases are color-coded red and blue
- Pressure tested for reliability
- Forged brass body with metal valve handles for durability
- Surge protector and silicone dampened movement helps minimize needle pulsation for easier, more accurate readings
- Sliding, double O-ring pistons with non-rotating design reduces wear and extends service life
- Fast acting valve (only 1 1/2 turns for full flow)

SERVICE PARTS

79R3135	RD-5-11136-0P	Piston
79R3137	RD-5-11137-0P	Handle Group

STANDARD MANIFOLD GAUGES

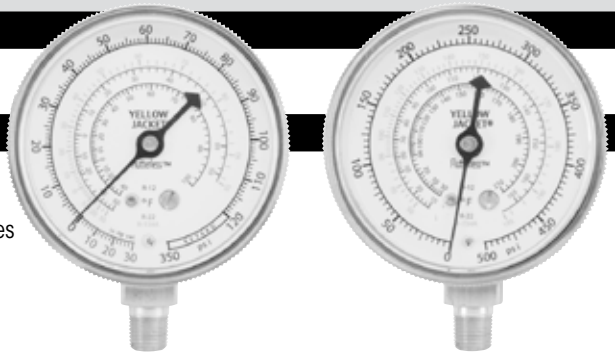
79R3125 LS — RD-5-11105-0P

Manifold Gauge, Red, R-134a – 0 to 500 PSI (0 to 3447 kPa)

79R3127 LS — RD-5-11106-0P

Manifold Gauge, Blue, R-134a – 30 to 0 to 120 PSI (206 to 0 to 827 kPa)

- Bold, high-visibility dials have colored temperature scales for easy reading
- Flutterless technology and surge protection minimize needle pulsation



Accuracy	3-2-3 percent
Diameter	2 1/2" (64 mm)
Connections	1/8" NPT

LS = Limited to stock on hand

TANKS & HOSES

REFRIGERANT RECOVERY TANKS

Drop-Ship Only

FOR R-134A & R-12

- Used to store recovered refrigerants
- 79R1810 and 79R1820 are equipped with 3-pin Brad Harrison connector
- Gray and yellow color coding
- Y-valve allows liquid/vapor collection
- Cylinders equipped with a protective collar and handle
- Float switch plug: 3/4"
- Pressure rating: 2400 kPa (350 PSI)

PART NUMBERS

79R1810 LS	RD-5-11120-0P	Cylinder with Float, 30 pound
79R-1815 LS	RD-5-11121-0P	Cylinder with Y-Valve (no float) 30 pound
79R1820 LS	RD-5-11122-0P	Cylinder with Float, 50 pound
79R1825 LS	RD-5-11083-0P	Cylinder with Y-Valve (no float) 50 pound

REFRIGERANT IDENTIFIER

79R3591 LS — RD-5-12321-0P

Drop-Ship Only

Hand-held micro infrared spectrometer detector that can readily identify and measure the percentage of purity of R-134a, R-22 and R-12 with 98% accuracy. It can also detect blends and contaminated refrigerants and digitally displays the percentage of air and alerts you with audible and visual alarms for flammable hydrocarbons.

Operates on 12 volt DC. Includes analyzer, hose, adapters, cord and carrying case.

R-134A TANKS

Drop-Ship Only

- For R-134a refrigerant
- Refillable refrigerant tanks are D.O.T. approved for safety
- Come with the valving necessary for recovery and recycling
- Distinctive blue exterior clearly identifies these tanks as R-134a equipment

79R1911 LS — RD-5-11562-0P
30 lb. Tank with float switch – 134a

79R1912 LS — RD-5-11563-0P
50 lb. Tank only – 134a

79R1914 LS — RD-5-11561-0P
30 lb. Tank only – 134a

79R1920 LS — RD-5-11566-0P
30 lb. Tank only – 134a

79R1921 LS — RD-5-11564-0P
30 lb. Tank with float switch – R-12

79R1922 LS — RD-5-11565-0P
50 lb. Tank only – R-12

79R1923 LS — RD-5-11567-0P
50 lb. Tank with float switch – R-12

WRAP-AROUND HEATER

79R1800 LS — RD-5-11114-0P

Wrap-Around Heater (115V)

- Used to heat 30, 50, and 125 pound refrigerant cylinders
- Maintains an even temperature for constant positive pressure that speeds transfer of refrigerant for a complete charge every time
- Expandable (wraps around 30, 50, and 125 pound refrigerant tanks)
- Thermostat controlled

LS = Limited to stock on hand

SERVICE COUPLERS

79R3178 LS — RD-5-11102-0P

Coupler, chrome with
blue anodized body, low side to 14 mm

- Couplers interface with R-134a service ports
- Quick, easy connect/disconnect
- Control valve allows access to system even at working pressures
- Integral safety sleeve holds coupler securely to service port
- High-flow characteristics

79R3179 LS — RD-5-11103-0P

Coupler, chrome with
red anodized body, high side to 14 mm

- Couplers interface with R-134a service ports
- Quick, easy connect/disconnect
- Control valve allows access to system even at working pressures
- Integral safety sleeve holds coupler securely to service port
- High-flow characteristics

79R4005 — RD-5-8329-0P

Retrofit R-12 Vacuum Pump to R-134a

R-12 AIR CONDITIONING CHARGING HOSES

- Proven performance
- Double barrier protection for R-12 and R-134a
- Nylon permeation barrier meets U.L. requirements for R-12, R-134a, R-22, and R-503 refrigerants
- Moisture barrier provides improved resistance to moisture (contaminates expensive refrigerant)
- SealRight fittings immediately trap refrigerant in hose when disconnected
- 45˚ end allows easier connection in tight areas
- Gaskets resist deterioration from R-12 and R-134a refrigerants and oil

PART NUMBERS

79R3162 LS	RD-5-11086-0P	Red 457 cm (15 ft)
79R3164 LS	RD-5-11088-0P	Blue 457cm (15ft)
79R3166 LS	RD-5-11090-0P	Yellow 457 cm (15 ft)
79R3165 LS	RD-5-11091-0P	Yellow 244 cm (8 ft)
79R3161 LS	RD-5-11093-0P	Red (high) 244 cm (8 ft)
79R3163 LS	RD-5-11092-0P	Blue (low) 244 cm (8 ft)

LS = Limited to stock on hand

R-134A AIR CONDITIONING CHARGING HOSES

- 1/4" hoses for R-134a refrigerant
- 1/2" Acme fitting meets SAE requirements
- Double-barrier protection
- Threads:
  1/2" Acme female
  14 mm Acme male

PART NUMBERS

79R3175 LS	RD-5-11094-0P	Yellow 244 cm (8 ft)
79R3173 LS	RD-5-11095-0P	Blue 244 cm (8 ft)
79R3171 LS	RD-5-11096-0P	Red 244 cm (8 ft)
79R3176 LS	RD-5-11097-0P	Yellow 457 cm (15 ft)
79R3174 LS	RD-5-11098-0P	Blue 457 cm (15 ft)
79R3172 LS	RD-5-11099-0P	Red 457 cm (15 ft)

VACUUM PUMPS & ACCESSORIES

1.5 CFM VACUUM PUMPS

79R4020 LS — RD-5-11139-0P

Vacuum Pump, 115V, 60 Hz

79R4030 LS — RD-5-11140-0P

Vacuum Pump, 220V, 50 Hz

- Rated as "free air displacement" pump
- Rugged metal construction with no plastic to crack or fall off
- Oil reservoir port has a wide-mouth for easier, neater filling; doubles as an pump exhaust; and is threaded to attach garden type hose for exhausting to remote location
- Large oil reservoir helps reduce operating temperature and dilute corrosive contaminants
- Large sight glass for easier monitoring
- Large oil drain valve for quicker draining
- Longer heat dissipation fins for a cooler running unit
- Low operating temperature improves efficiency and vacuum
- Low profile on/off switch to avoid breakage
- Vacuum indicator gauge at pump intake fitting shows evacuation progress at a glance (electronic gauge then provides more precise readings)
- Gas ballast speeds evacuation and keeps oil cleaner
- Tethered caps stay with the unit

Drop-Ship Only

Pump rating	1.5 cfm
Field rating	15 microns
Intake	1/4 flare and 1/2" ACME thread
Motor	1/6 horsepower at 1725 rpm
Internal capacitor thermal overload	Temperature Rise 104°F (40°C)
Voltage (single phase)	115 Volt, 60 Hz or 220 Volt, 50 Hz
Oil capacity	24 oz (0.7 liter)
Dimensions	10 1/2" x 5 1/8" x 9 1/4" (26.67 x 12.95 x 23.37 cm)

4.0 CFM VACUUM PUMPS

79R4040 LS — RD-5-11118-0P

Vacuum Pump, 115V, 60 Hz

79R4050 LS — RD-5-11119-0P

Vacuum Pump, 230V, 50 Hz

- Rated as "free air displacement" pump
- Rugged metal construction with no plastic to crack or fall off
- Oil reservoir port has a wide-mouth for easier, neater filling; doubles as an pump exhaust; and is threaded to attach garden type hose for exhausting to remote location
- Large oil reservoir helps reduce operating temperature and dilute corrosive contaminants
- Large sight glass for easier monitoring
- Large oil drain valve for quicker draining
- Longer heat dissipation fins for a cooler running unit
- Low operating temperature improves efficiency and vacuum
- Low profile on/off switch to avoid breakage
- Vacuum indicator gauge at pump intake fitting shows evacuation progress at a glance (electronic gauge then provides more precise readings)
- Gas ballast speeds evacuation and keeps oil cleaner
- Tethered caps stay with the unit

Drop-Ship Only

Pump rating	4 cfm
Field rating	15 microns
Intake	1/4" and 1/2" ACME thread
Motor	1/3 horsepower at 1725 rpm
Internal capacitor thermal overload	Temperature rise 104°F (40°C)
Voltage (single phase)	115 Volt, 60 Hz or 230 Volt, 50 Hz
Oil capacity	0.7 liter (24 oz)
Overall dimensions	15 1/4" x 6 3/2" x 12" (38.7 x 17.1 x 30.5 cm)
Weight	29.5 lbs (13.4 kg)

LS = Limited to stock on hand

R134a 3-IN-1 VALVE FOR VACUUM/CHARGE/RECOVERY CORE TOOL

- Used as a vacuum monitoring valve (¼" side port to attach electronic micron vacuum gauge for greater accuracy)
- Core remover (allows evacuation and charge through an unrestricted line for increased speed and higher vacuum)
- Core replacement tool
- Recovery valve (core removal allows recovery unit to work at maximum efficiency, speeding recovery process)

PART NUMBERS

79R2921 LS	RD-5-11141-0P	Core Remover
79R2923 LS	RD-5-11142-0P	Core Remover

LCD VACUUM GAUGE & SENSOR

79R0190 LS — RD-5-11115-0P

Drop-Ship Only

LCD Vacuum Gauge

- Vacuum gauge combines thermocoupler sensor technology with advanced IC electronics for precise readings and repeatability not found with thermistor sensors or analog meters
- Precision circuitry to control sensor and then translate sensor input into micron readings
- Provides accurate readings on job after job from 1999 to 1 micron without calibration
- Large, high-contrast digital display for easy reading
- Female to female coupler to connect sensor into system
- Powered from one D cell battery
- Compact design with storage case for sensor, cable, and hose
- Rugged molded case protects electronic circuitry and sensor

79R0195 LS — RD-5-11116-0P

Drop-Ship Only

Thermocouple Sensor

- No adjustments or warmup
- Stays calibrated after on/off switching and long evacuations
- Automatic ambient temperature compensation
- Automatic battery compensation
- Replaceable thermocouple sensor with ¼-inch flare (no calibration required)
- Comes with 182 cm (6 ft) long sensor cable

R-12 VACUUM/ CHARGE VALVE

79R2925 LS — RD-5-11125-0P

- Used as a vacuum monitoring valve (¼" side port to attach electronic micron vacuum gauge for greater accuracy)
- Core remover (allows evacuation and charge through an unrestricted line for increased speed and higher vacuum)
- Core replacement tool
- Recovery valve (core removal allows recovery unit to work at maximum efficiency, speeding recovery process)

HEAVY DUTY RETROFIT ADAPTER KIT

79R8940 — RD-5-9986-0P

LS = Limited to stock on hand

MISCELLANEOUS

A/C FLUSH

79R4650 RD-5-10206-0P

128 ounce
(1 gallon)
6 per case

79R4655 RD-5-10207-0P

32 ounce
(1 quart)
4 per case

COMPRESSOR OIL INJECTOR

79R1710 RD-5-8291-0P

R134a

Adding oil to air conditioning compressors is a necessary but slow process. The refrigerant charge is wasted and some disassembly is required. 79R1700 and 79R1710 is used in conjunction with a gauge manifold assembly. It utilizes the pressure differential from the high to the low side of the system to inject 2 oz. of oil into the unit.

VACUUM PUMP OIL

79R4710 LS RD-5-11327-0P

Use with 79R4010

Promotes internal sealing for good vacuum and absorbs unwanted vapor from evacuated units. Regular oil changes promote longer vacuum pump life.

LEAK DETECTOR

79R3576 LS RD-5-11365-0P

HEATED ACCUPROBE ELECTRONIC LEAK DETECTOR

Combines proven technology with user-friendly features. Santoprene® holster provides protection and a comfortable grip. Gooseneck probe is 16" long, wraps onto the back for storage; sensing tip fits into the recessed slot. Other features include audible and visual leak indicators, volume control and sensitivity selection for most refrigerants including R-134a, new blends and substitutes.

DROPSHIP ONLY

79R3599 LS RD-5-12319-0P

PRO-ALERT SNIFFER LEAK DETECTOR

REFRIGERANT OIL

79R4550 RD-5-5916-0P

R-12 **ONLY**

MINERAL OIL 1 quart
Quality, wax-free, compressor oil for air conditioning systems.
Printed calibrations to facilitate measured pouring.
Viscosity: 500 S.S.U. @ 100°F.
6 per case

79R4561 RD-5-9633-0P

(12 oz.) Ester Oil Plastic Bottle – 100 viscosity
6 per case

79R4562 RD-5-9634-0P

(32 oz.) Ester Oil Plastic Bottle – 100 viscosity
6 per case

79R4563 RD-5-9635-0P

(128 oz.) Ester Oil Plastic Bottle – 100 viscosity
4 per case

79R4580 RD-5-7103-0P

(8 oz.) SP15 Pag Oil – Use with R-134a Sanden Compressors – 221 viscosity
6 per case

79R4585 RD-5-7166-0P

(1 qt.) Pag Oil – Use with R-134a Zexel / Seltec (Diesel Kiki) Compressors – 46 viscosity
6 per case

79R4595 RD-5-8062-0P

R-134a and R-12
(12 oz.) Ester oil – Use with CCI Compressors
12 per case

OIL DIPSTICK

79R4597 RD-5-11568-0P

Sanden Oil Dipstick

LS = Limited to stock on hand

DIAL THERMOMETER

79R1150 RD-5-10209-0P

2″ dial face with 0° to 220° F range.

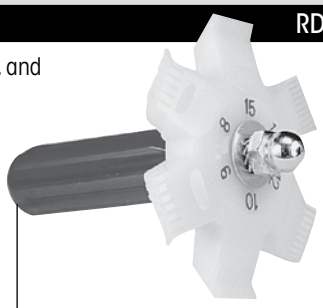
INFRARED THERMOMETER

79R1153 LS RD-5-11525-0P

FIN COMB

79R1255 RD-5-11113-0P

- Multi-head tools straightens 8, 9, 10, 12, 14, and 15 fins per inch
- Works on radiator evaporator coils and aluminum finned heat exchangers
- Breaks down easily for tool box storage
- Compact 10 cm (4 in) length



DYE

79R5025 RD-5-7956-0P

For Pag Oil –
Six per pack

79R5030 RD-5-8039-1M

For Ester Oil –
Six per package

REFRIGERATION TAPE

79R4400 RD-5-4058-360P

2″ wide by ⅛″ tape used in covering exposed A/C fittings
(30 foot roll) .

AIR CONDITIONING SERVICE MANUAL

79R5901 RD-5-11043-0P

WIRE LOOM CONDUIT

79R0125 RD-5-9569-96P

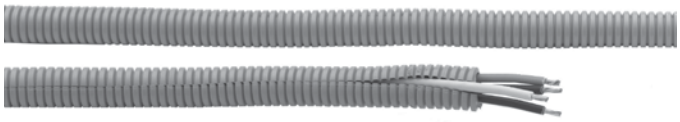
0.250 inside diameter black wire loom conduit

79R0138 RD-5-5904-96P

0.375 inside diameter black wire loom conduit

79R0150 RD-5-5905-96P

0.500 inside diameter black wire loom conduit



79R0225 RD-5-7357-96P

0.250 inside diameter gray wire loom conduit

79R0241 RD-5-5562-96P

0.413 inside diameter gray wire loom conduit

79R0250 RD-5-7171-96P

0.500 inside diameter gray wire loom conduit

79R0258 RD-5-55908-96P

0.625 inside diameter gray wire loom conduit

LS = Limited to stock on hand

MISCELLANEOUS

R-134A RETRO KITS

79R4600 RD-5-8958-OP

CCI / Tecumseh Retro-kit Applications
Allis Chalmers, Autocar, Brockway, Caterpillar, Chevy/GMC, Deutz-Allis, Diamond Rio, Fiat-Allis, Ford (FS-6, Nippondenso 6E171 use 4379-RD599830 retro fit kit), Ford-Sperry, Ford Tractor, Fox River, Freightliner, Hesston (HFI), International Harvester, IH/Navistar, J.I.Case, John Deere, Long, Kenworth, Mack, Marmon, Massey Ferguson, New Holland, New Idea/Avco, Oliver, Peterbilt, Steiger, Versatile, Volvo/White/GM, Western Star, White Farm. All with compressor model Climate Control/York, Tecumseh

RETROFIT KIT
Convert Your Vehicle's R12 A/C System To Ozone Safe R134a Refrigerant!
POE100
Premium Polyol Ester ISO Viscosity 100 Lubricant For R12 & R134a
12 FL. OZ. (354 ML)

79R4605 RD-5-8960-OP

Sanden / Seltec / Zexel Retro-kit Applications
Caterpillar, Chevy/GMC, Deutz-Allis, Euclid, Fiat-Allis, Allis Chalmers, Ford (FS-6, Nippondenso 6E171 use RD-5-9983-OP retro fit kit), Ford Sperry, Ford Tractor, Freightliner, Hesston (HFI), Hino, International Harvester, IH/Navistar, Isuzu, Iveco, J.I.Case, John Deere, Kenworth, Mack, Marmon, Mercedes, New Holland, Nissan U.D., Oliver, Peterbilt, Steiger, Versatile, Volvo/White/GM, Western Star, White Farm. All with compressor model Sanden/Zexel/Diesel Kiki.

79R4615 RD-5-8961-OP

GM A6/R4/DA6 **Retro-kit Applications**
Caterillar, Deutz-Allis, Fiat-Allis, Allis Chalmers, Chevy/GMC, J.I.Case, John Deere, Long, Massey Ferguson, Navistar, New Idea/Avco, Mack, Terex. All with compressor model GM A6/Frigidaire.

79R4625 RD-5-9983-OP

Nippondenso **Retro-kit Applications**
1980 to current Ford cars, pickups and vans. All with compressor models (FS6/HR980/FX15/FS10) Frigidaire A6, Nippondenso 6E/6P/10P/10PA, Sanden SD5/SD7

FOR CONVERTING R12 A/C SYSTEMS TO ENVIRONMENTALLY SAFE HFC-134A

Kits include the minumum components necessary to convert from an R12 system to R134a system. Kit includes "O" rings and gaskets, retro charging adapters, R12 charging port eliminator cap, retrofitted identification label and 8oz. of Retro A/C Ester Oil.

NOTE: RETRO KITS ARE NOT ENDORSED BY THE COMPRESSOR MANUFACTURERS.

FLEX HOSES

- 79R0107 used on low-pressure side of R-12 air conditioning recovery systems; 79R0109 used on high-pressure side
- Easy retrofit of existing hoses to provide ball valve capability
- Flexible hose between valve and fitting makes hook-up in tight areas much easier

PART NUMBERS

79R0107 LS	RD-5-11145-OP	Blue Flex Hose (¼")
79R0109 LS	RD-5-11146-OP	Red Flex Hose (¼")

LS = Limited to stock on hand

R-12 SERVICE ADAPTER

79R4004 LS RD-5-11124-OP

Air Conditioning Adapter

- Used to service air conditioning systems on 1991 and later GM vehicles

SEALANT

79R6700 RD-5-7242-OP

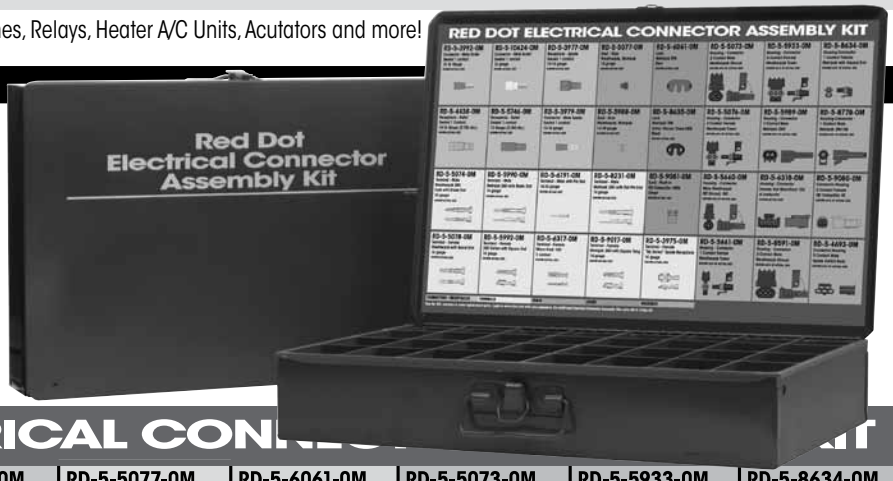
Adhesive – 2.8 oz.

ELECTRICAL CONNECTOR ASSEMBLY KIT

Plugs for Compressor Clutches, Blower Motors, Switches, Relays, Heater A/C Units, Acutators and more!

79R3532 RD-5-11966-0P

Finally, a kit to fit that hard to find plug assembly with the right housing, terminal, seal, and lock that looks and fits like the sealed OE connector.



Here's what you get:

RED DOT ELECTRICAL CONNECTOR ASSEMBLY KIT

RD-5-3992-0M Connector - Male Bullet Sealed 1 contact 14-16 Gauge SHOWN ACTUAL SIZE	**RD-5-10424-0M** Connector - Male Bullet Sealed 1 contact 12 gauge SHOWN ACTUAL SIZE	**RD-5-3977-0M** Receptacle - Spade Sealed 1 contact 14-16 gauge SHOWN ACTUAL SIZE	**RD-5-5077-0M** Seal - Blue Weatherpak, Metripak 12 gauge SHOWN ACTUAL SIZE	**RD-5-6061-0M** Lock Metripak TPA Blue SHOWN ACTUAL SIZE	**RD-5-5073-0M** Housing - Connector 2 Contact Male Weatherpak Shroud SHOWN 60% OF ACTUAL SIZE	**RD-5-5933-0M** Housing - Connector 3 Contact Female Weatherpak Tower SHOWN 60% OF ACTUAL SIZE	**RD-5-8634-0M** Housing-Connector 1 Contact Female Metripak with Square End SHOWN 60% OF ACTUAL SIZE
RD-5-4438-0M Receptacle - Bullet Sealed 1 Contact, 14-16 Gauge (0.156 dia.) SHOWN ACTUAL SIZE	**RD-5-5746-0M** Receptacle - Bullet Sealed 1 contact 12 Gauge (0.180 dia.) SHOWN ACTUAL SIZE	**RD-5-3979-0M** Connector - Male Spade Sealed 1 contact 14-16 gauge SHOWN ACTUAL SIZE	**RD-5-5988-0M** Seal - Gray Weatherpak, Metripak 14-18 gauge SHOWN ACTUAL SIZE	**RD-5-8635-0M** Lock Metripak TPA Volvo, Paccar, Case OEM Black SHOWN ACTUAL SIZE	**RD-5-5076-0M** Housing - Connector 2 Contact Female Weatherpak Tower SHOWN 60% OF ACTUAL SIZE	**RD-5-5989-0M** Housing - Connector 2 Contact Male Metripak 280 SHOWN 60% OF ACTUAL SIZE	**RD-5-8778-0M** Housing-Connector - 1 Contact Male Metripak 280 HD SHOWN 60% OF ACTUAL SIZE
RD-5-5074-0M Terminal - Male Weatherpak 280 I-pin with Blade End 14 gauge SHOWN ACTUAL SIZE	**RD-5-5990-0M** Terminal - Male Metripak 280 with Blade End 14 gauge SHOWN ACTUAL SIZE	**RD-5-6191-0M** Terminal - Male with Pin End 14-16 gauge SHOWN ACTUAL SIZE	**RD-5-8231-0M** Terminal - Male Metripak 280 with Flat Pin End 14 gauge SHOWN ACTUAL SIZE	**RD-5-9081-0M** Lock - Push-in HD Caterpillar OEM Green SHOWN ACTUAL SIZE	**RD-5-5660-0M** Housing - Connector Male Weatherpak HD Shroud, IHC SHOWN 60% OF ACTUAL SIZE	**RD-5-6318-0M** Housing - Connector Female Flat MicroPack 100 6 conductor SHOWN ACTUAL SIZE	**RD-5-9080-0M** Connector-Housing 2 Contact Female HD Caterpillar OE SHOWN 60% OF ACTUAL SIZE
RD-5-5078-0M Terminal - Female Weatherpak with Barrel End 14 gauge SHOWN ACTUAL SIZE	**RD-5-5992-0M** Terminal - Female 280 Series with Square End 14 gauge SHOWN ACTUAL SIZE	**RD-5-6317-0M** Terminal - Female Micro-Pack 100 1 contact SHOWN ACTUAL SIZE	**RD-5-9017-0M** Terminal - Female Metripak 280 with Square Tang 14 gauge SHOWN ACTUAL SIZE	**RD-5-3975-0M** Terminal - Female "56 Series" Spade Receptacle 14 gauge SHOWN ACTUAL SIZE	**RD-5-5661-0M** Housing - Connector 1 Contact Female Weatherpak Tower SHOWN 60% OF ACTUAL SIZE	**RD-5-8591-0M** Housing - Connector 3 Contact Male Weatherpak Shroud SHOWN 60% OF ACTUAL SIZE	**RD-5-4693-0M** Connector-Housing 5 Contact Male Spade Switch Body SHOWN 60% OF ACTUAL SIZE
CONNECTORS / RECEPTACLES	TERMINALS	SEALS	LOCKS	HOUSINGS			

Use the RD- numbers to order replacement parts. Login to www.rdac.com with your password. For additional Electrical Connector Assembly Kits order RD-5-11966-0P

ELECTRICAL CONNECTOR ASSEMBLY TOOL KIT

The perfect companion to Red Dot's Connector Assembly Kit, these are the only tools you'll need to assemble all of the connectors shown above.

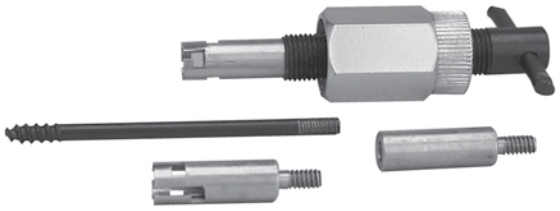
79R3535 RD-5-12140-0P

MISCELLANEOUS

ORIFICE TUBE REMOVER KIT

79R1660 RD-5-11135-0P

- Designed to remove all necessary parts of complete or damaged orifice tube



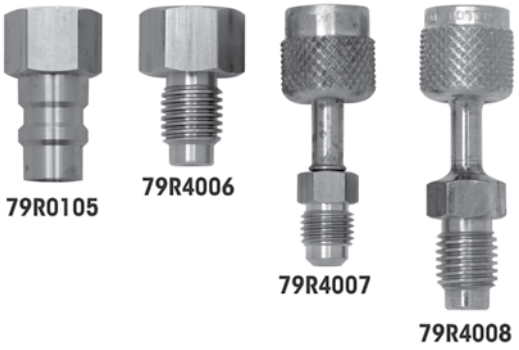
SCHRADER CORE TOOL

79R8945 RD-5-12674-0P

High Flow Schrader Core Remover/Installer Tool

ADAPTERS AND COUPLER

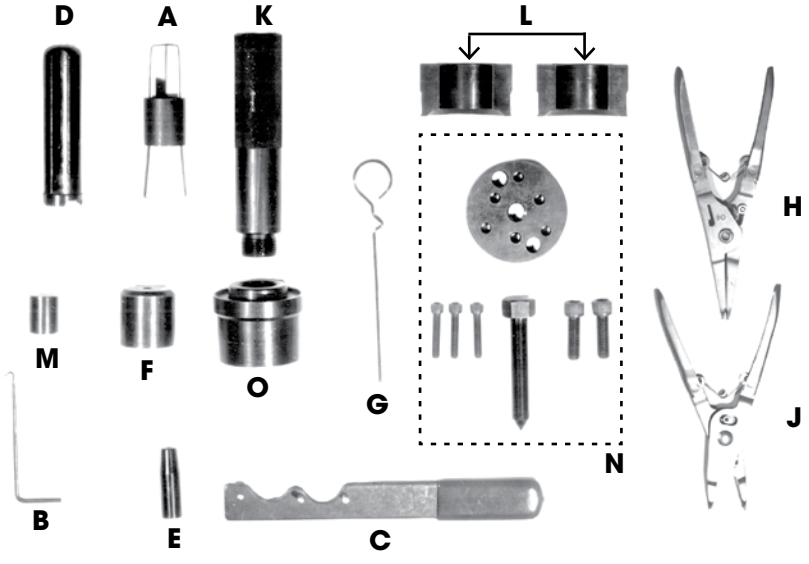
- Adapt female quick connect to male thread
- Knurled fittings for easy connection



PART NUMBERS

79R0105	RD-5-11143-0P	Adapter, ½" acme female hex to 13mm male R-134a low-side (R-12 to R-134a)
79R4006	RD-5-11148-0P	Coupler, Converts Standard R-12 ¼" flare to R-134a ½" acme thread
79R4007	RD-5-11123-0P	Adatpter, R-12, female QD to ¼" male flare
79R4008	RD-5-11138-0P	Adapter, R-134a, ¼" female QD to ½" male ACME

COMPRESSOR TOOL KIT



79R3000 RD-5-5620-0P

Deluxe Sanden Tool Kit

For SD-508 and SD-510 COMPRESSORS

Contains the following:

- **A** Seal Seat Remover
- **B** "O" Ring Remover
- **C** Clutch Holder
- **D** Seal Remover/Installer
- **E** Seal Protector
- **F** Clutch Face Installer
- **G** Oil Dipstick
- **H** Internal Snap Ring Plier
- **J** External Snap Ring Plier
- **K** Handle
- **L** Puller Fingers
- **M** Puller Pilot
- **N** Puller Plate Assembly
- **O** Bearing Remover/Installer